REPORT NO. 78-3-30

FOREST INSECT AND DISEASE MANAGEMENT UNIT
U.S. FOREST SERVICE
DORAVILLE, GEORGIA

REPORT OF AERIAL DETECTION SURVEY

LAND OWNERSHIP OR SURVEY AREA: CROATAN NATIONAL FOREST

STATE: NORTH CAROLINA

AREA WITHIN SURVEY BOUNDARY: 308,226 ACRES

DATE: AUGUST 16, 1978

PERCENT COVERAGE: 50%

AIRCRAFT: CESSNA 182

CREW: J.GHENT, W.A. CAROTHERS

REPORT PREPARED BY: W.A. CAROTHERS

SURVEY OBJECTIVES: TO DETECT THE PRESENCE OF DESTRUCTIVE FOREST INSECTS OR DISEASES ADVERSELY AFFECTING THE CROATAN NATIONAL FOREST.

SURVEY RESULTS

1. TWENTY SPOTS OF DEAD (RED-TOPPED) PINES WERE OBSERVED. OF THESE SPOTS 17 CONTAINED ONLY ONE TREE WITH THE REMAINING THREE SPOTS CONTAINING THREE TREES PER SPOT.

2. ONE AREA OF SCATTERED HARDWOOD DEFOLIATION WAS OBSERVED (REFER TO MAP).

CONCLUSIONS

FOREST INSECT ACTIVITY IS PRESENTLY AT A LOW LEVEL ON THE CROATAN NATIONAL FOREST. NONE OF THE SPOTS OF DEAD PINES SHOWED SIGNS OF AN ACTIVE INFESTATION. THE AREA OF SCATTERED HARDWOOD DEFOLIATION WAS GROUND CHECKED BY FIDM PERSONNEL. NO CAUSAL INSECT WAS FOUND. THE DEFOLIATION MAY BE THE RESULT OF HIGH WATER WHICH OCCURRED DURING THE SPRING. FIELD SURVEILLANCE SHOULD CONTINUE BY NATIONAL FOREST PERSONNEL.

FOR ANY ADDITIONAL INFORMATION, CONTACT:

FOREST INSECT AND DISEASE MANAGEMENT UNIT
USFS - SOUTHEASTERN AREA

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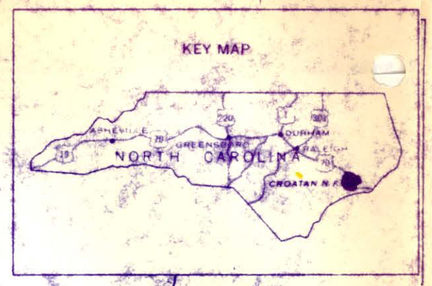
U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
JOHN R. McGUIRE, CHIEF

CROATAN NATIONAL FOREST
NORTH CAROLINA
1964

Scale
1 0 1 2 3 4 5 Miles

KEY MAP



LEGEND

- National Forest Boundary
- Paved Road
- All Weather Road
- Dirt Road
- Primitive Road
- Trail
- Railroad
- Horizontal Control Station
- Horizontal Control and Permanent Lookout Station
- Forest Service Installation
- District Ranger Station
- Permanent Lookout Station
- Church
- School
- Mine, Quarry or Gravel Pit
- Cemetery
- Recreation Site
- Swamp
- National Forest Land
- U.S. Highway
- State Highway
- Forest Route

FOREST SUPERVISOR'S OFFICE AT ASHEVILLE, NORTH CAROLINA

AERIAL DETECTION SURVEY

CROATAN NATIONAL FOREST
8/16/78 U.S.F.S. AERIAL SURVEY TEAM

⊙1 LOCATION OF DEAD OR DYING PINES WITH NUMBER OF AFFECTED TREES

BOUNDARY OF HARDWOOD DEFOLIATION AREA

77°10' 77°00' 50' 76°40'

Longitude west from Greenwich

Polyconic Projection 1927 North American Datum